

Retatrutide GLP-1 / GIP / GCG Triagonist · RUO

PRODUCT	Retatrutide (LY3437943)	APPEARANCE	White lyophilized powder
LOT / BATCH NO.	CP813251101	MANUFACTURING DATE	2025-10-24
CAS NO.	2381089-83-2	RETEST DATE	2027-10-23
MOLECULAR FORMULA	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈	STORAGE	-20 °C, desiccated, protected from light
MOLECULAR WEIGHT	4731.42 g/mol	REPORT DATE	2025-11-11

AMINO-ACID SEQUENCE

Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{α-Me-Leu}-Leu-Asp-Lys-{diacid-C20-gamma-Glu-(AEEA)-Lys}-Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH₂

#	TEST	SPECIFICATION	RESULT
1	Appearance	White or almost white powder	Conforms
2	Related Substances	Total impurities: ≤ 2.0% Max single impurity: ≤ 1.0%	0.77% 0.23%
3	Identification (MS)	4731.42 ± 4	Conforms
4	Water Content (K.F.)	≤ 8.0%	2.8%
5	Sodium Ion (IC)	≤ 5.0%	1.1%
6	Solubility	≥ 5 mg/mL (H ₂ O)	Conforms
7	Peptide Content	≥ 80.0%	95.4%
8	Peptide Purity (HPLC)	≥ 98.0%	99.23%
9	Bacterial Endotoxins	≤ 10 EU/mg	Conforms
10	pH	7.0 – 9.0 (C = 5 mg/mL)	7.7
11	Residual Solvent	Methanol ≤ 3000 ppm Acetonitrile ≤ 410 ppm Methylene chloride ≤ 600 ppm Isopropyl ether ≤ 5000 ppm N,N-Dimethylformamide ≤ 880 ppm	N.D. 79 ppm N.D. N.D. N.D.
12	Microbial Limits	TAMC ≤ 1000 cfu/g TYMC ≤ 100 cfu/g	Conforms Conforms
13	Acid-Group Ions	Trifluoroacetate ≤ 1000 ppm Phosphate ≤ 1000 ppm Chloride ≤ 1000 ppm Acetic acid ≤ 1000 ppm	N.D. N.D. N.D. N.D.
14	Escherichia coli	Not detected	Conforms
15	Pseudomonas aeruginosa	Not detected	Conforms
16	Staphylococcus aureus	Not detected	Conforms
17	Salmonella	Not detected	Conforms



AUTHENTICITY VERIFICATION

NST-RETA-CP813251101-8154F0

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Batch analytical data reviewed & released under NST Research Quality Control

NST Research

Quality Control Department · Date: 2025-11-11

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